Geography (GEOG) Courses

GEOG 5000 [0.5 credit]
Approaches to Geographical Inquiry
A review of the major philosophical perspectives shaping research and explanation by geographers. Particular attention is paid to interpretations of social structure and human action, the nature of the biophysical universe, and the interaction between human beings and their environments.
Includes: Experiential Learning Activity

GEOG 5001 [0.5 credit]
Modeling Environmental Systems
Methods and problems of research on the physical environment, with illustrative material taken from the atmospheric and surface earth sciences. Topics include: the identification and behaviour of environmental systems, temporal and spatial scale, experimental method under field conditions, and simulation and model development.
Includes: Experiential Learning Activity

GEOG 5002 [0.5 credit]
Quantitative Analysis for Geographical Research
Quantitative techniques and methods for research on the natural and cultural environment. Topics include: sampling, experimental design, replication, variance, correlation, time series analysis, statistical uncertainty, simulation, calibration, validation.
Includes: Experiential Learning Activity

GEOG 5003 [0.5 credit]
Critical Approaches to Qualitative Inquiry
Development of critical skills in qualitative research by considering the relationship between theory and method. Engaged scholarship and participatory, community-based, action research. Practical experience with select methods including: interviews, personal narratives, focus groups, participant observation, archival research, discourse analysis, and visual methodologies.
Includes: Experiential Learning Activity

GEOG 5005 [0.5 credit]
Global Environmental Change: Human Implications
Global environmental change: its significance for societies, economies and international relations. Value systems underlying environmental discourse; political economy of the environment; sustainability and security. Environmental diplomacy and grassroots environmentalism. Regionalized impacts of pressures on natural environments; challenges of adaptation.
Includes: Experiential Learning Activity
Also listed as INAF 5701.

GEOG 5006 [0.5 credit]
Special Topics in Geography of the Environment
Research seminar on a selected theme within geographical approaches to environmental analysis. Topics will vary from year to year. Consult departmental web site for current details.
Includes: Experiential Learning Activity

GEOG 5103 [0.5 credit]
Hydrologic Principles and Methods
Advanced physical hydrology with emphasis on atmospheric moisture, precipitation, evaporation, infiltration, soil water physics, snow hydrology and runoff generation. Analytical approaches and methods to solve practical hydrological problems.
Includes: Experiential Learning Activity

GEOG 5104 [0.5 credit]
Advanced Biogeography
Current methods and theories in paleoecology are examined: dendrochronology, paleolimnology and other techniques for examining past climates and environmental condition. Numerical approaches to climate change studies.
Includes: Experiential Learning Activity

GEOG 5107 [0.5 credit]
Field Study and Methodological Research
Field acquisition and analysis of geographic material; supervised field observations and methodology. (Individual or group basis, by special arrangement.)
Includes: Experiential Learning Activity

GEOG 5201 [0.5 credit]
Special Topics in the Geography of Development
Research seminar within geographical approaches to development focusing on a selected theme or region. Topics vary from year to year. Consult departmental web site for current details.
Includes: Experiential Learning Activity

GEOG 5303 [0.5 credit]
Geocryology
Development of ground ice in permafrost regions of Canada; ice segregation and pore-water expulsion during ground freezing; analytical and numerical approaches to modeling permafrost conditions.
Includes: Experiential Learning Activity
Prerequisite(s): GEOG 4108 or permission of the Department.

GEOG 5307 [0.5 credit]
Soil Resources
Physical, mineralogical, chemical, and other properties of soils will be studied in agricultural, environmental, geomorphological and/or geotechnical contexts, as relevant to the students enrolled.
Includes: Experiential Learning Activity
GEOG 5400 [0.5 credit]  
 Territory and Territoriality  
 Contemporary geographical and international relations theorizing is challenging notions of boundaries and territories in the political organization of modernity. Using contemporary writings on geopolitics, security, sovereignty, self-determination and identity politics this course investigates territoriality as a political and intellectual strategy.  
 Includes: Experiential Learning Activity  
 Also listed as INAF 5402.

GEOG 5406 [0.5 credit]  
 Special Topics in Cultural Geography  
 Research seminar on a selected theme within cultural (including historical) geography. Topic varies from year to year. Consult departmental web site for current details.  
 Includes: Experiential Learning Activity

GEOG 5500 [0.5 credit]  
 Special Topics in the Study of Cities and Urbanization  
 Research seminar on a selected theme within geographical approaches to the study of cities and urbanization. Topics will vary from year to year. Consult departmental website for current details.  
 Includes: Experiential Learning Activity

GEOG 5502 [0.5 credit]  
 Special Topics in Geography of Globalization  
 Research seminar on a selected theme within geographical aspects of globalization. Topic varies from year to year. Consult departmental web site for current details.  
 Includes: Experiential Learning Activity

GEOG 5600 [0.5 credit]  
 Empire and Colonialism  
 Theoretical approaches to empire and colonialism: postcolonial, feminist, Indigenous, anti-racist, queer, decolonizing, and political-economic approaches. Consideration of a range of sites of imperial and colonial formation, including land, territory, nature, the body, sexuality, gender, and race, as well as forms of resistance, resurgence, and decolonization.  
 Includes: Experiential Learning Activity

GEOG 5701 [0.5 credit]  
 Topics in Northern Human Geography  
 Political, social, economic, cultural, and environmental geographies of the Canadian North and/or circumpolar North. Topics may include climate change, resource development, politics and governance, knowledge and expertise, geopolitics, sovereignty, colonialism, Indigenous knowledge, Indigenous self-determination, conservation and wildlife, environmental politics.  
 Includes: Experiential Learning Activity

GEOG 5803 [0.5 credit]  
 Seminar in Geomatics  
 Current research issues in geomatics, including remote sensing, geographic information systems, geographic positioning, and cartography. Topics will focus on combined interests of enrolled students and departmental faculty.  
 Includes: Experiential Learning Activity  
 Prerequisite(s): prior experience with GIS, GPS, remote sensing or cartography and permission of the department.

GEOG 5804 [0.5 credit]  
 Geographic Information Systems  
 GIS for students with no previous experience. Includes data formats and structures, input/output and analysis capabilities, and GIS applications.  
 Includes: Experiential Learning Activity

GEOG 5900 [0.5 credit]  
 Graduate Tutorial  
 Tutorial, directed reading or research, offered on an individual basis, to meet specific program needs; may be taken in one of the areas of specialization of the Department.  
 Includes: Experiential Learning Activity

GEOG 5905 [0.5 credit]  
 Masters Research Workshop  
 A workshop which focuses on the challenges of research design in the various sub-fields of geography. The workshop will culminate with the development and defence of a thesis research proposal.  
 Includes: Experiential Learning Activity

GEOG 5906 [3.0 credits]  
 M.Sc. Thesis  
 Thesis supervision will be given in Physical Geography, as listed in the introductory section of this department's program description.  
 Includes: Experiential Learning Activity

GEOG 5909 [2.5 credits]  
 M.A. Thesis  
 Thesis supervision will be given in all areas of specialization of the Department, as listed in the introductory section of this department's program description.  
 Includes: Experiential Learning Activity

GEOG 6000 [0.5 credit]  
 Doctoral Core Seminar: Geography, Society and the Environment  
 Geographical perspectives on the development of society/environment interrelations in Western thought and critiques thereof. The course is designed to represent and address integrative issues in the two fields of the program, the geography of social change and the geography of environmental change.  
 Includes: Experiential Learning Activity
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<td>Doctoral Core Seminar: Geography, Society and the Environment</td>
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<td>Field Seminar: Geography of Societal Change</td>
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